Who is MeGIS and the Maine GeoLibrary?

Geospatial Data, Data Services and Related Information from the Maine Office of GIS

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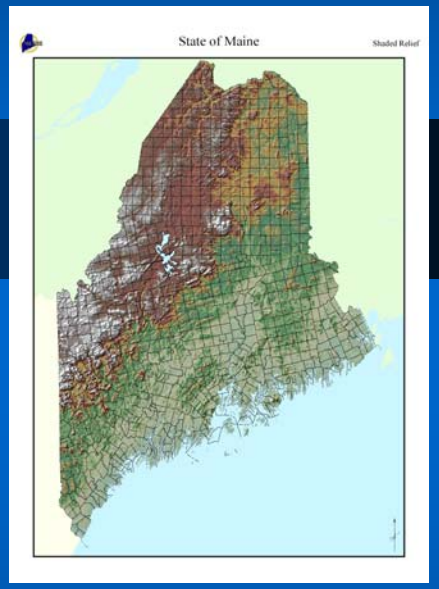
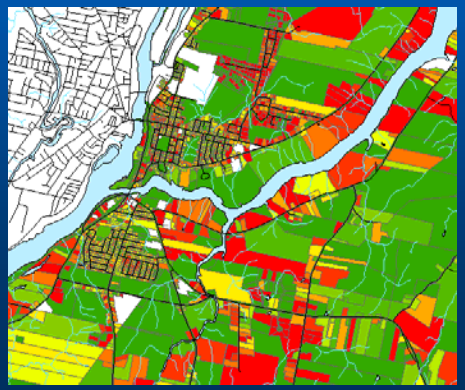
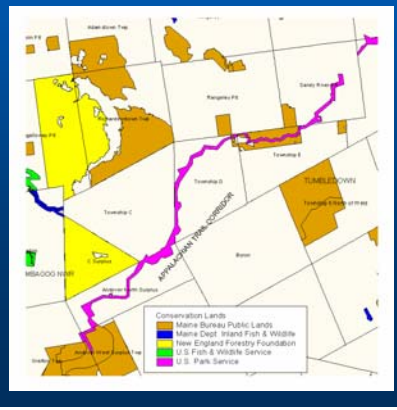


FOR MORE INFO...

Website: http://megis.maine.gov/





Overview of MeGIS Operations….

Office of GIS

Core GIS Services

- Technical Support
- Standards – data development/metadata
- Geospatial data repository
- Access to GIS – data, software, applications
- Intergovernmental coordination
- Clearinghouse for GIS

GIS Projects

- Data development
- Application development
- Maps
- Analysis

Who's in Charge?

GIS Executive Council

Formed to oversee the operation of the Office of Geographic Information Services and the development of a statewide geographic information system

GIS EC

- GIS Executive Council
  - Main focus is State government GIS activity
    - 20 state agencies
    - GIS Technical Committee
    - Subcommittees as needed (e.g., Internet mapping, hydrography, remote sensing)
  - Annual work plan guides work
  - Agencies provide funding

State GIS Executive Council

Maine Counties GIS Forum

- Administrative & Financial Services
- Agriculture
- Atlantic Salmon Commission
- Corrections
- Economic & Community Development
- Education
- Environmental Protection
- Historic Preservation Commission
- Health & Human Services
- Inland Fisheries & Wildlife
- Maine Emergency Management
- Maine State Library
- Maine State Museum
- Marine Resources
- Maine Army National Guard
- Professional & Financial Regulations
- Public Safety
- Public Utilities Commission - ADMIN
- Public Utilities Commission - ESCB
- State Planning Office
- Transportation
- Univ. of Maine System/UNET

Who Else is in Charge?

The Maine Library of Geographic Information "*GeoLibrary*"

Maine Library of Geographic Information or "library" means the statewide network officially sanctioned by the Legislature by which data custodians or their designees organize, catalog, and provide access to public geographic information to all levels of government and to the public.

GeoLibrary

- **Maine GeoLibrary Board**
  - **Broader focus; promote use outside state government**
    - **Local & regional government, public and private sector**
    - **Finance Subcommittee**
    - **Policy Subcommittee**
    - **Technical Subcommittee**
  - **Work plan driven by bond funds**
  - **Bond is currently the sole funding source for GeoLibrary**

Maine Library of Geographic Information Board

Jim Page, James W. Sewall Co.
- representing GIS vendors

Marilyn Lutz, Spatial Information Science & Engineering
- University of Maine

Jon Guiles, City of Portland
- municipal representative

Paul Mateosian, City of Bath
- municipal representative

Ken Murchison, Northern Maine Development Corporation
- representing statewide association of regional councils

Robert F. Faunce, Consultant to Lincoln County
- representing statewide association of counties

Barbara Charry, Maine Audubon Society
- representing environmental interests

Dennis Boston, Central Maine Power
- representing utility interests

William Mitchell, Mitchell Geographics
- representing GIS vendors

Sean Myers
- representing the public

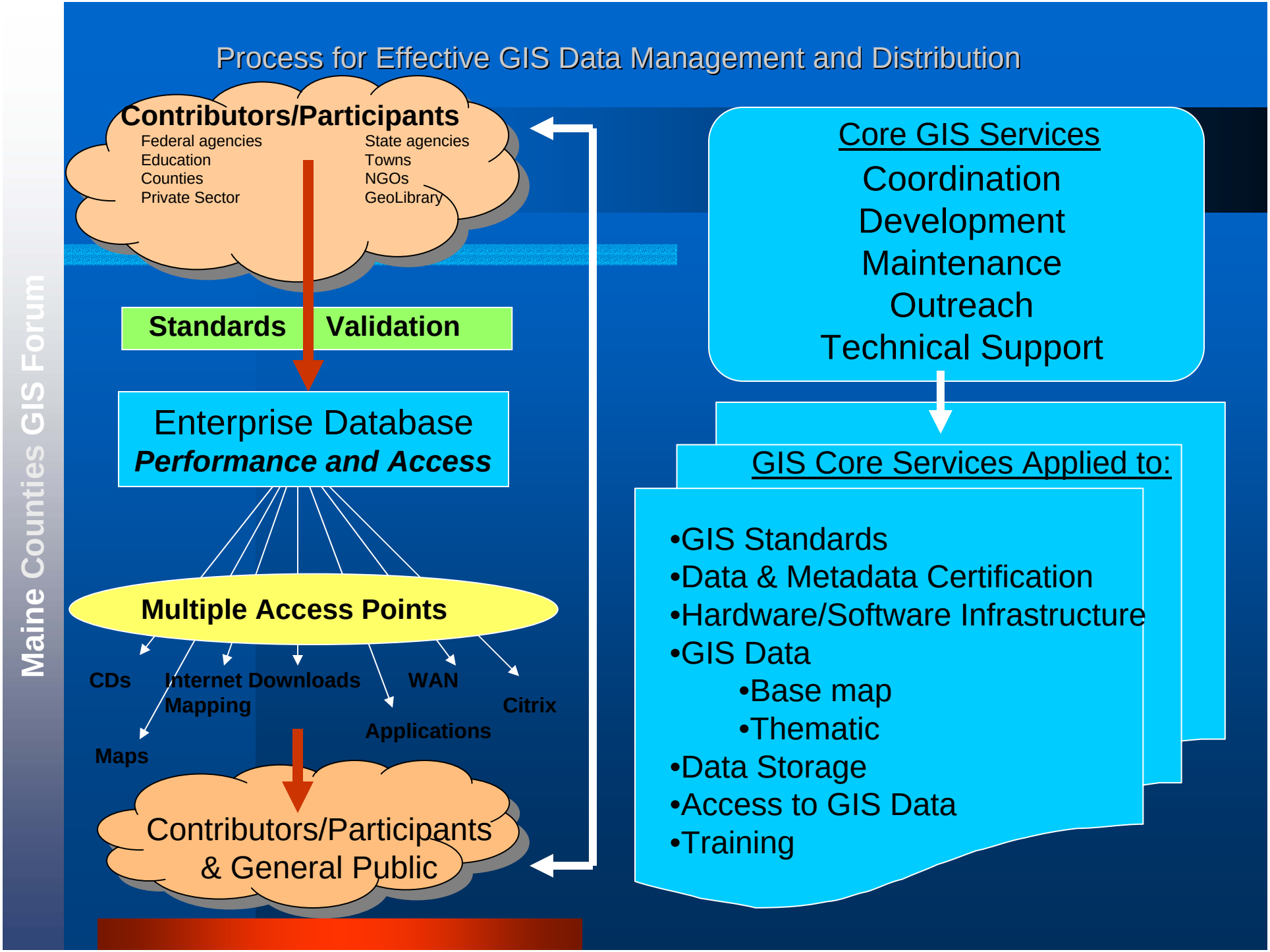
Robert Doiron, Maine Revenue Service
- DAFS Commissioner designee

Richard Thompson
- state government Chief Information Officer

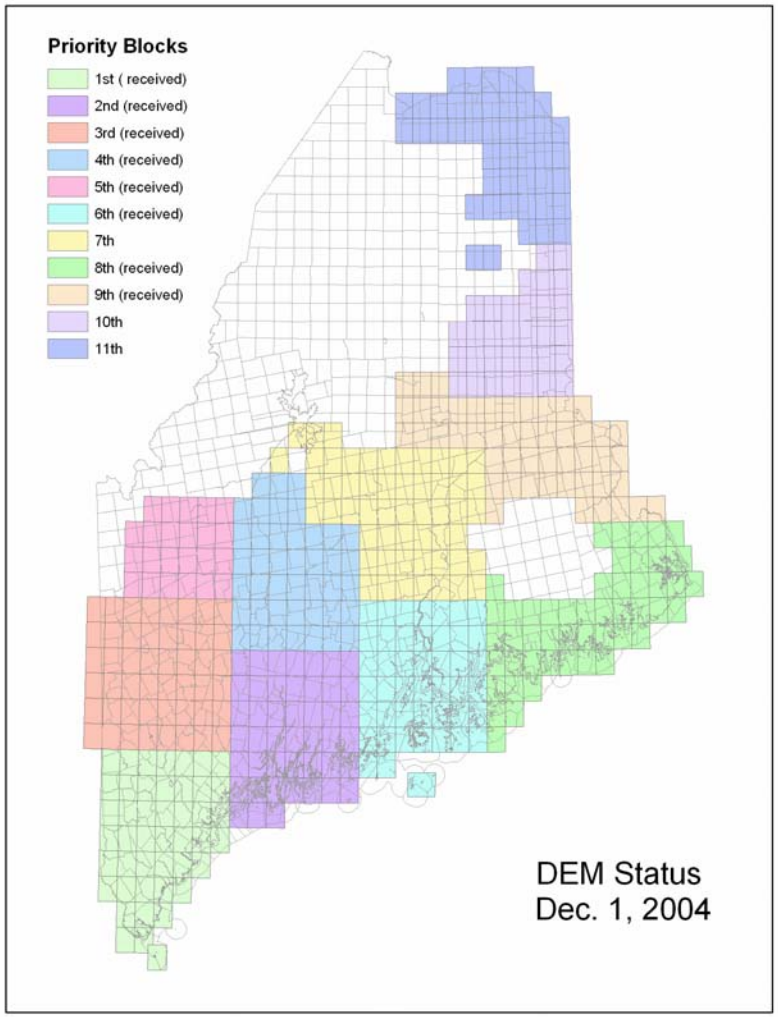
Elizabeth Hertz, Maine State Planning Office
- representing state GIS functions

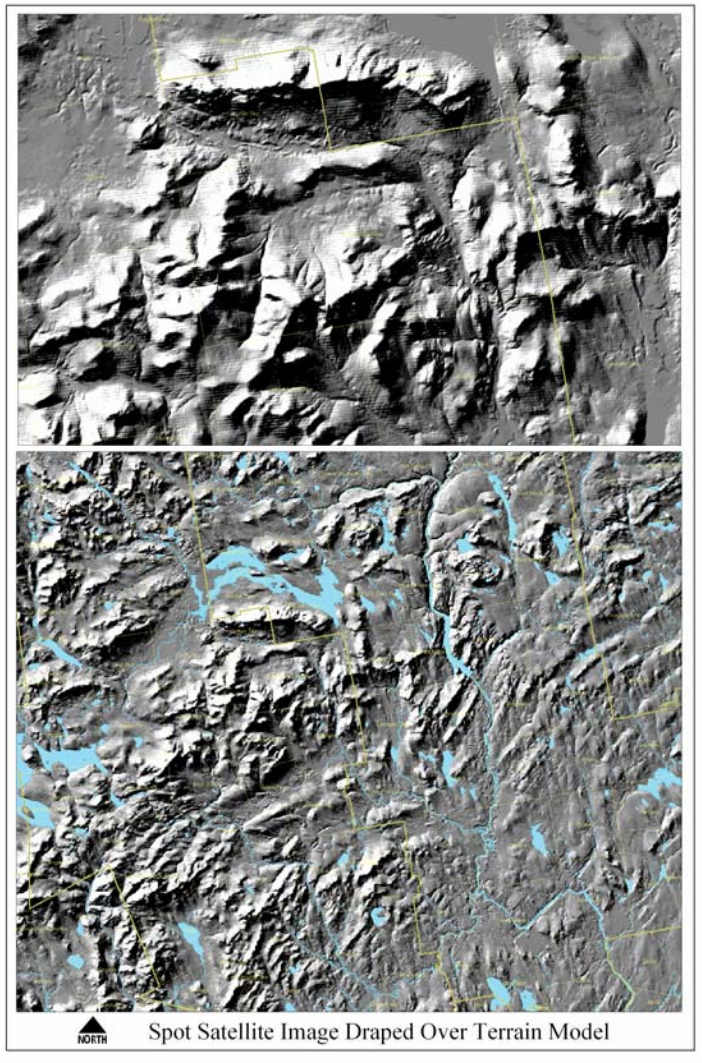
Vacant
- representing real estate and development interests

Vacant
- board position to be filled by legislature


Process for Effective GIS Data Management and Distribution
Maine Counties GIS Forum
Contributors/Participants
Federal agencies
Education
Counties
Private Sector
State agencies
Towns
NGOs
GeoLibrary
Standards
Validation
Enterprise Database
Performance and Access
Multiple Access Points
CDs
Internet Downloads
Mapping
WAN
Citrix
Applications
Maps
Contributors/Participants
& General Public
Core GIS Services
Coordination
Development
Maintenance
Outreach
Technical Support
GIS Core Services Applied to:
•GIS Standards
•Data & Metadata Certification
•Hardware/Software Infrastructure
•GIS Data
•Base map
•Thematic
•Data Storage
•Access to GIS Data
•Training

10 meter digital elevation models





Orthoimagery

Statewide Orthoimagery Project

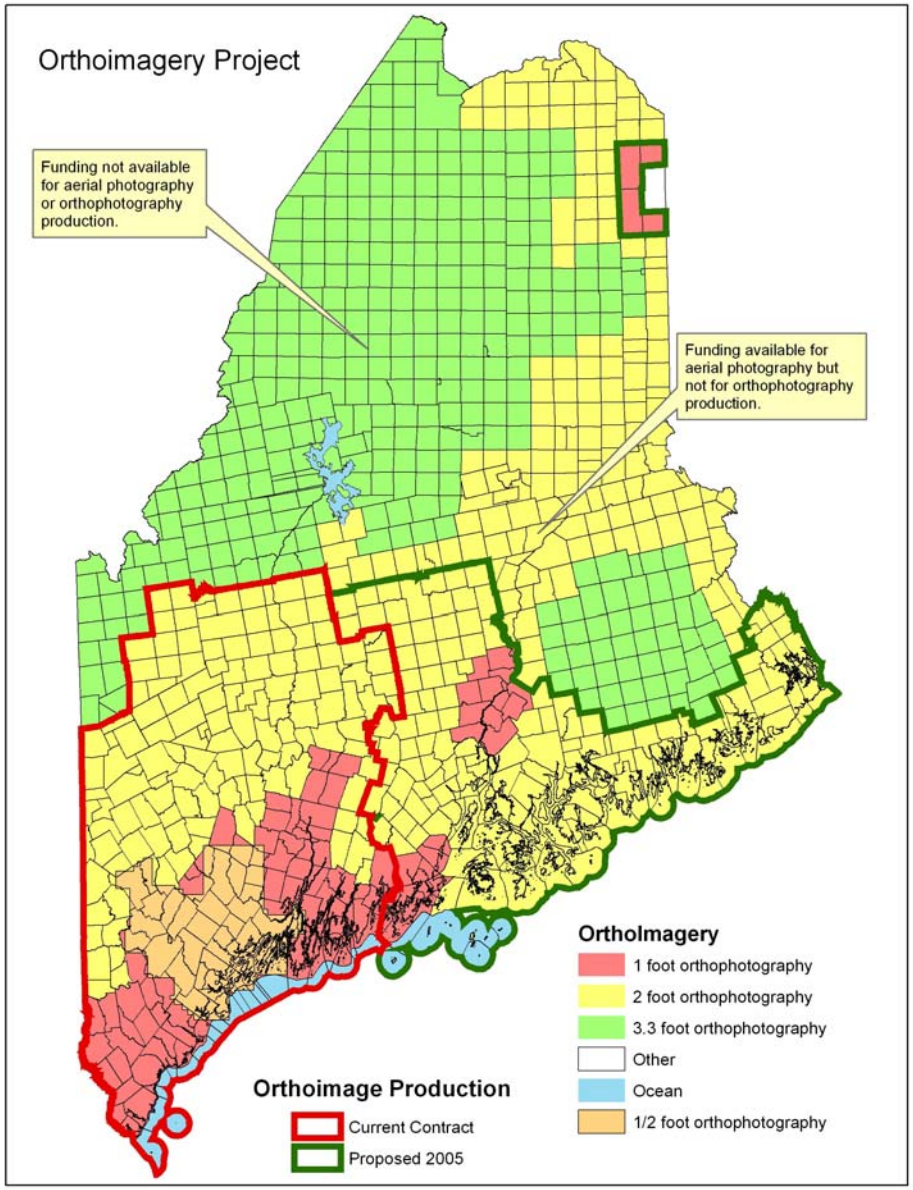
Maine Counties GIS Forum

Tier A
- •Photoscale 1 inch = 1,000 ft.
- •Production scale 1 inch = 200 ft.
- •Pixel resolution = 1 ft.
- •Flight height = 6,000 ft.

Tier B
- •Photoscale 1 inch = 2,000 ft.
- •Production scale 1 inch = 400 ft.
- •Pixel resolution = 2 ft.
- •Flight height = 12,000 ft.

Tier C
- •Photoscale 1 inch = 3,300 feet
- •Production scale 1 inch = 1000 ft.
- •Pixel resolution = 3.3 ft.
- •Flight height = 20,000 ft.

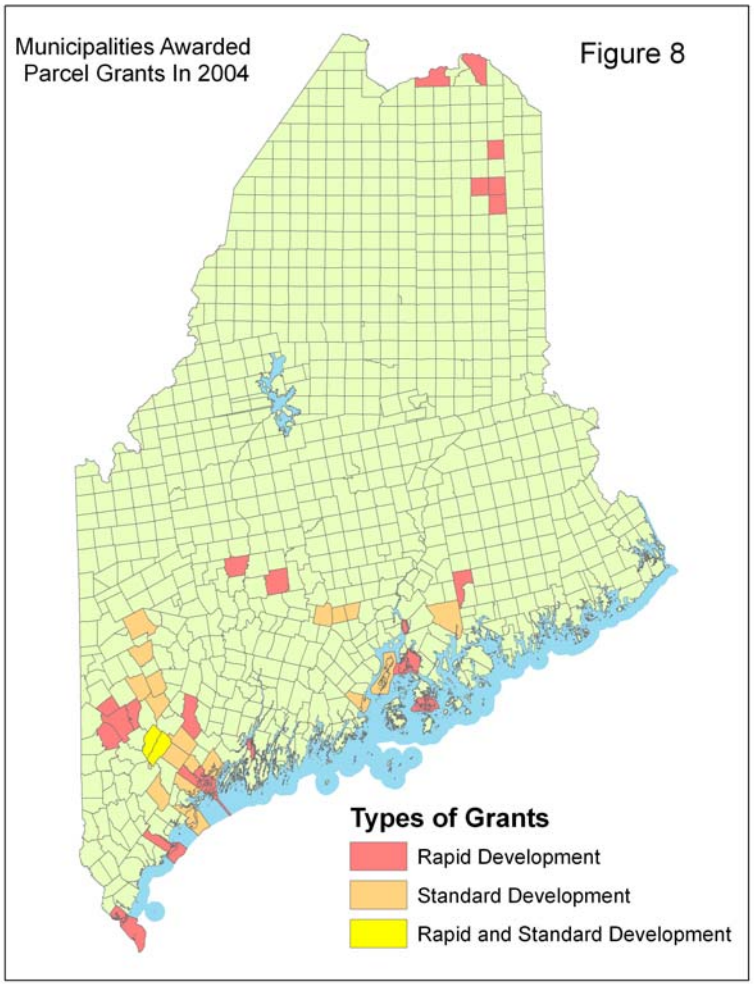
Leaf off
No snow
Mainly spring
Ortho-rectified
Natural color
Sun angle > 30 degrees
Horizontal accuracy – NMAS



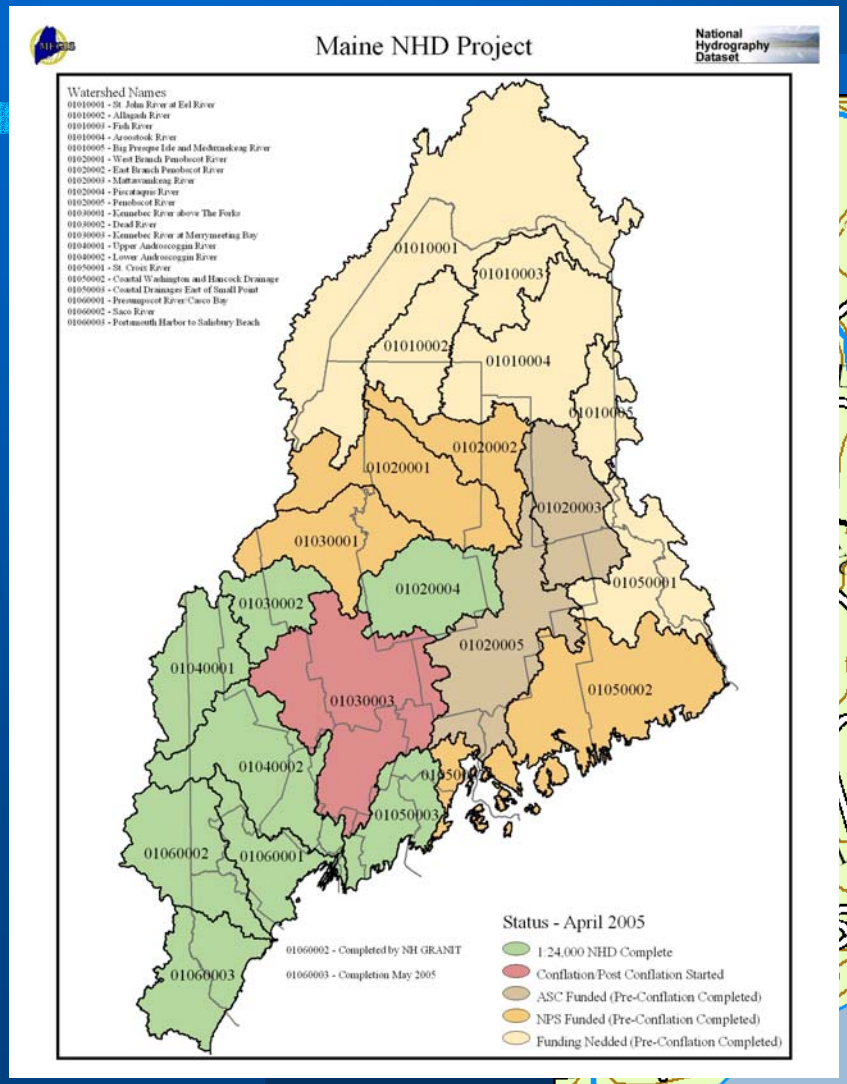
Municipal Grant Program

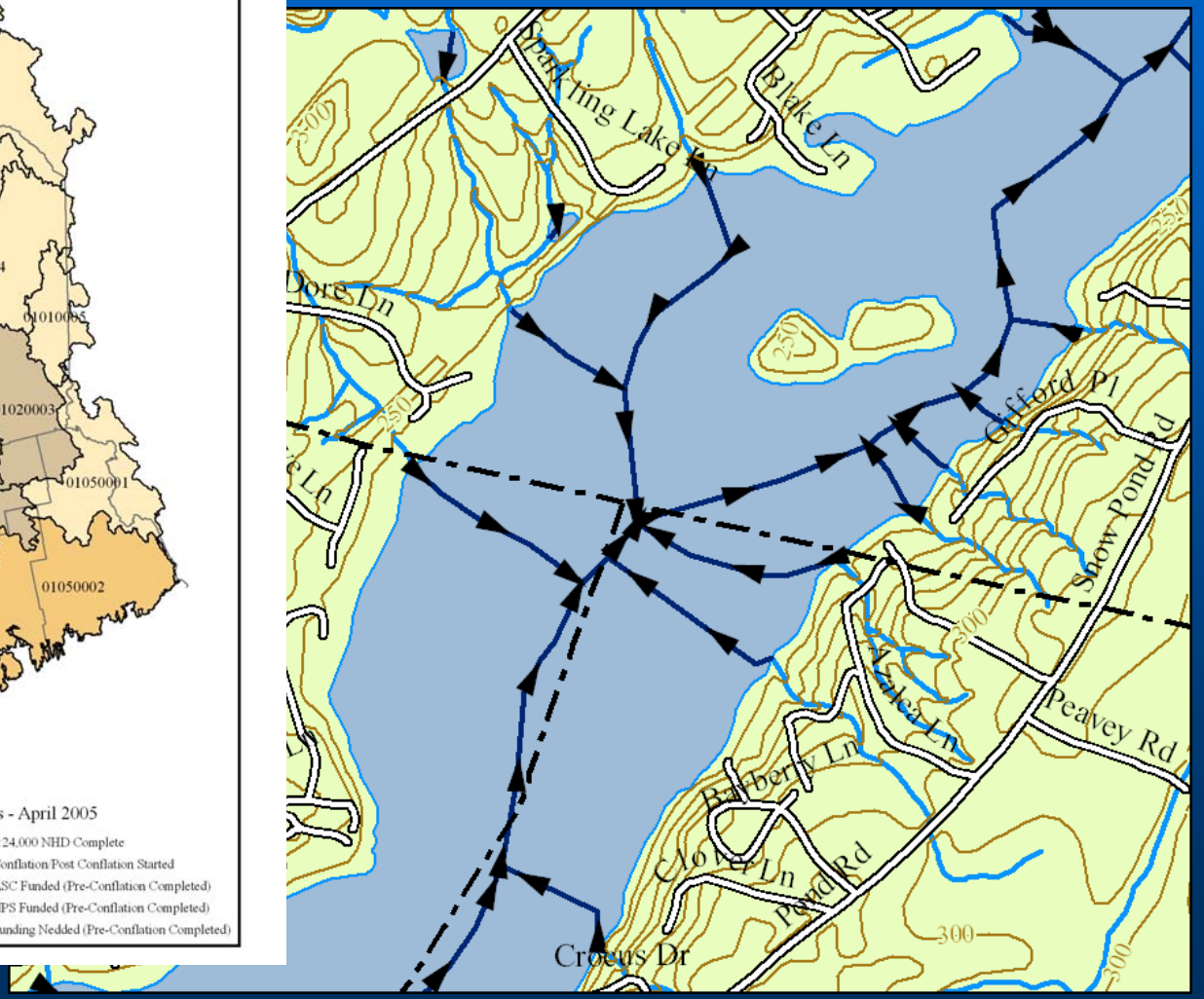
Digitizing Property Maps

- Standards for digital parcel files
- $350,000 available for two grant periods: $175,000 in both 2004 & 2005
- 78 applications received in first round
  - 27 for rapid development grants
  - 51 for standard development grants
  - 48 grants awarded
- Next round will be announced in June



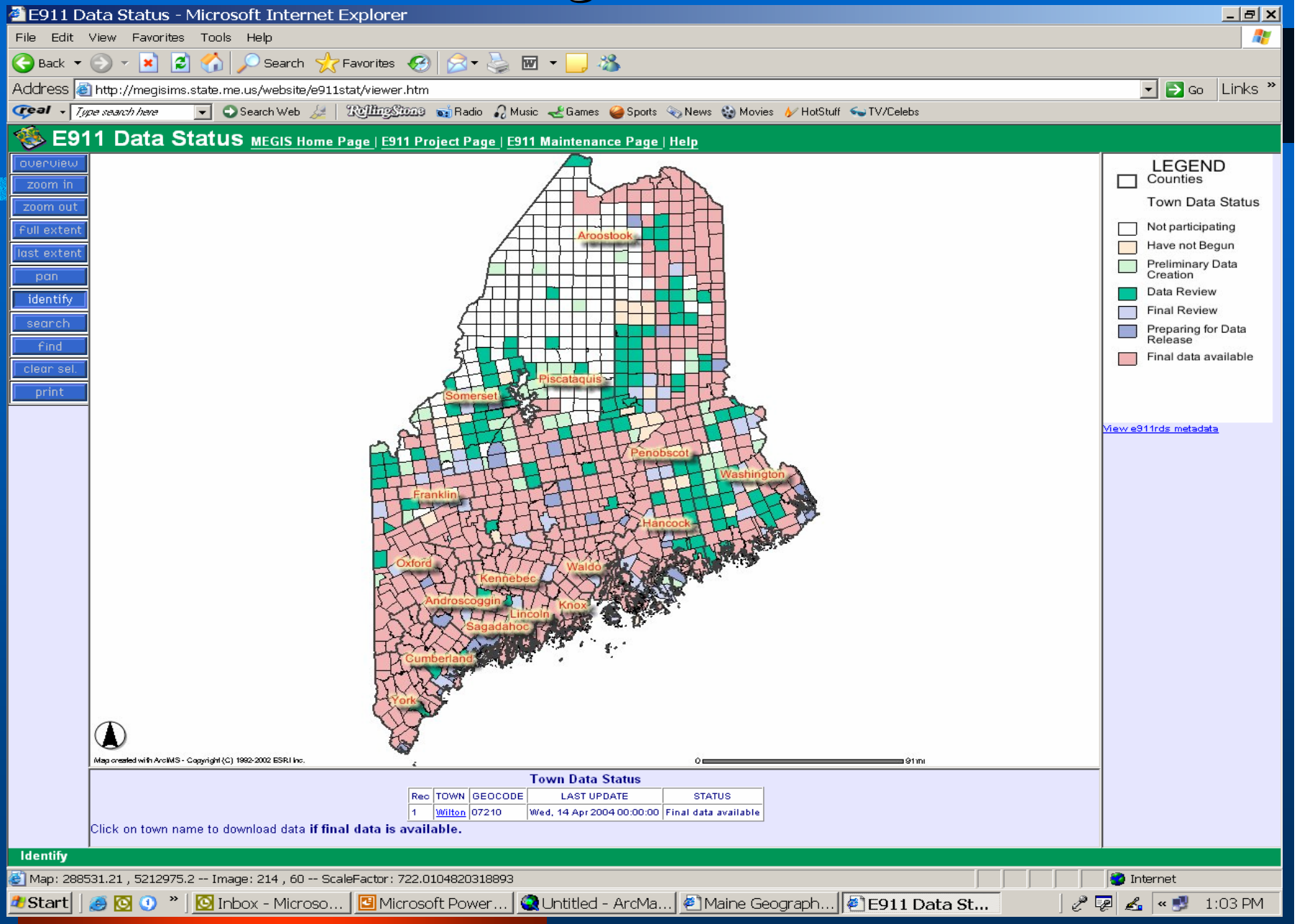
National Hydrography Database





Maine Counties GIS Forum

E911 Addressing and Maintenance



Maine Counties GIS Forum

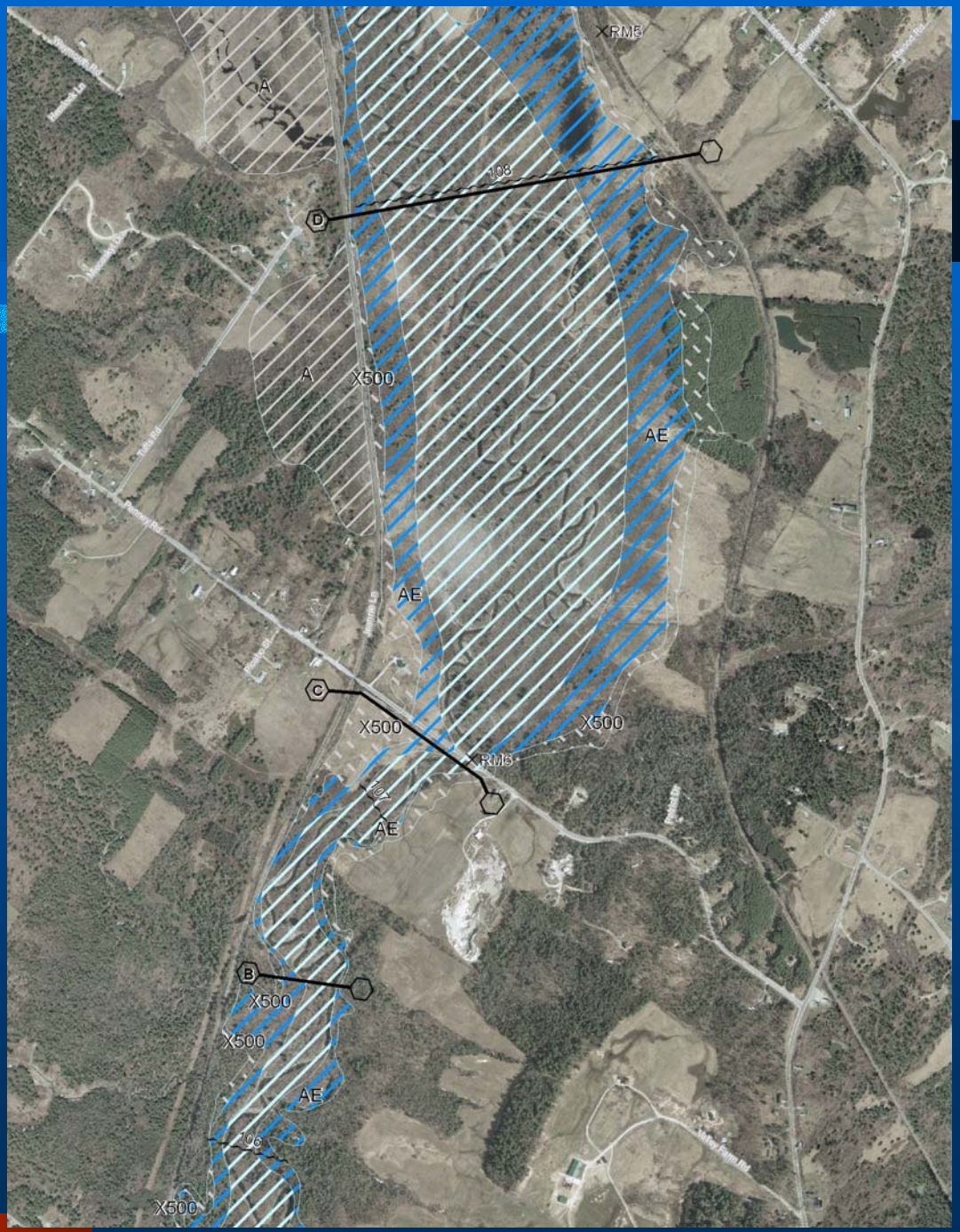
Maine Counties GIS Forum

Digital Flood Insurance Rate Maps
Map Modernization

FEMA
State Planning Office
Maine Office of GIS
US Geological Survey

- Recompile FIRM maps to new orthoimagery base

- New hydrologic studies to re-delineate flood zones



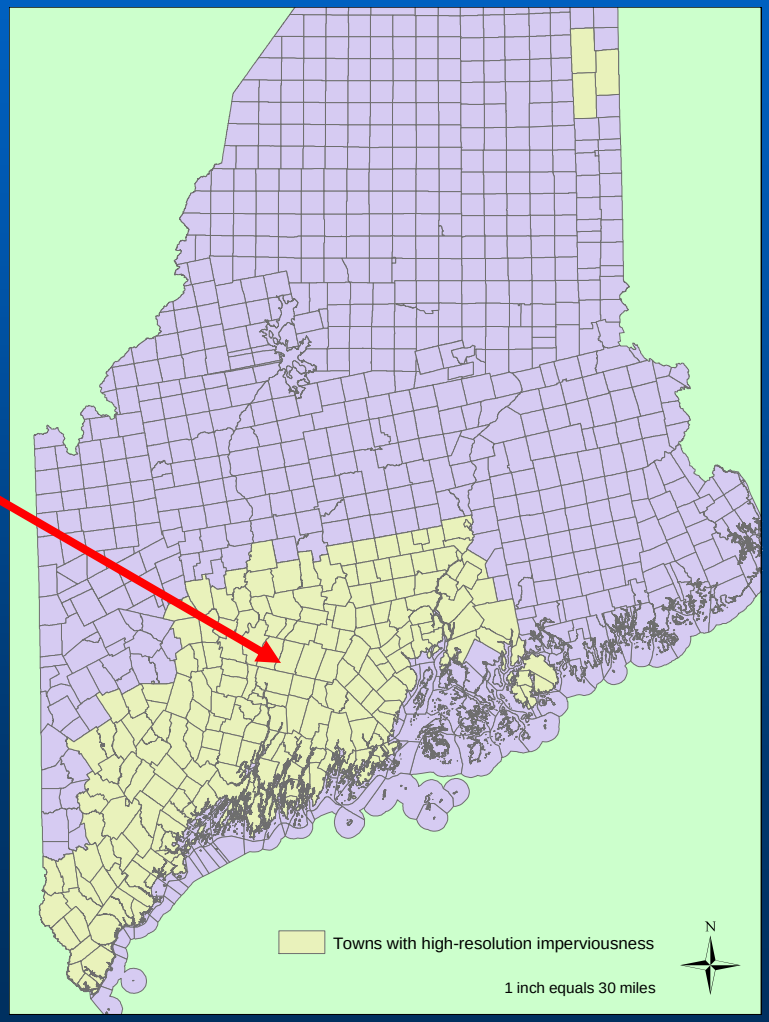
Statewide Land Cover Project

Maine Counties GIS Forum

Land cover map
- 20 land cover classes
- 5 meter pixel resolution
- 15 meter horizontal accuracy
- 70% accuracy w/ 0.89 acre minimum
- mapping unit

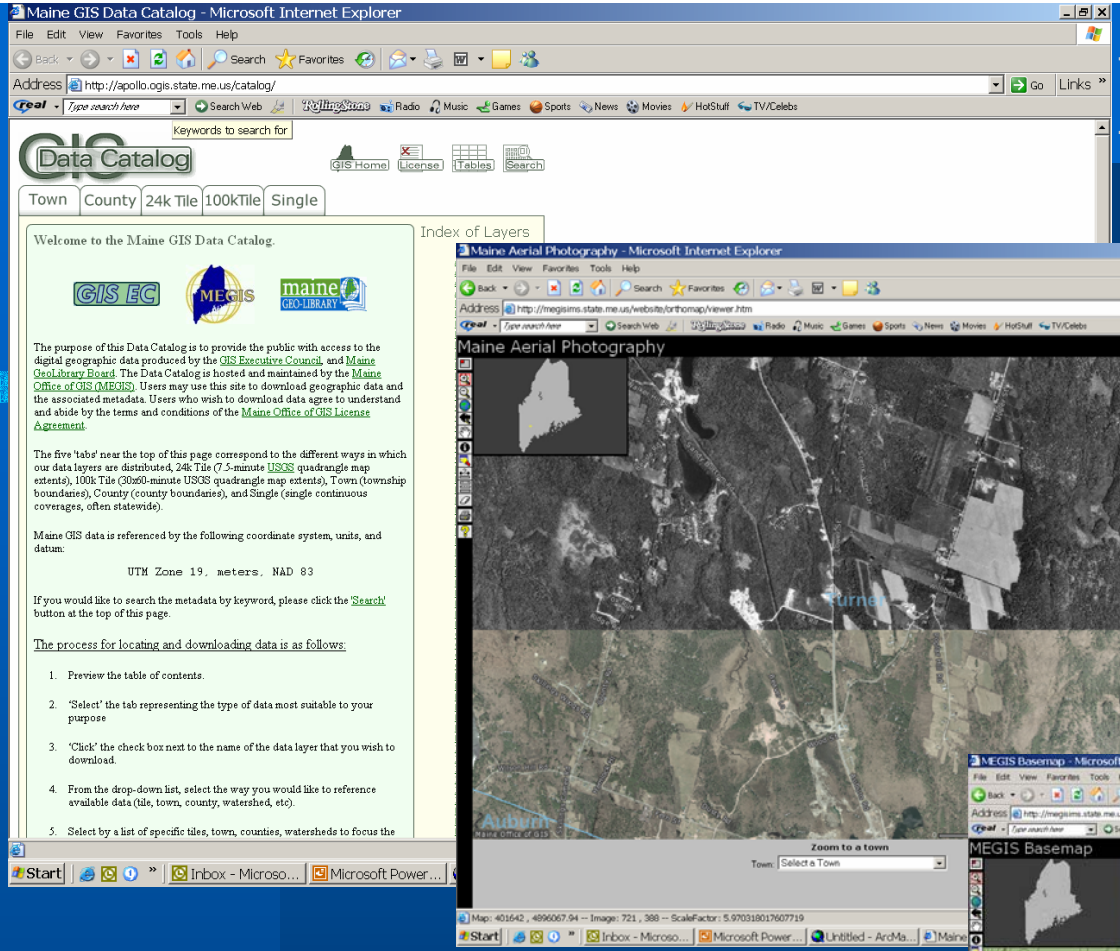
Imperviousness surface map
- Yes/no classification: pixel is impervious if 50% or more is impervious
- 5 meter pixel resolution
- 15 meter horizontal accuracy
- 90% accuracy w/ 0.89 acre minimum
- mapping unit

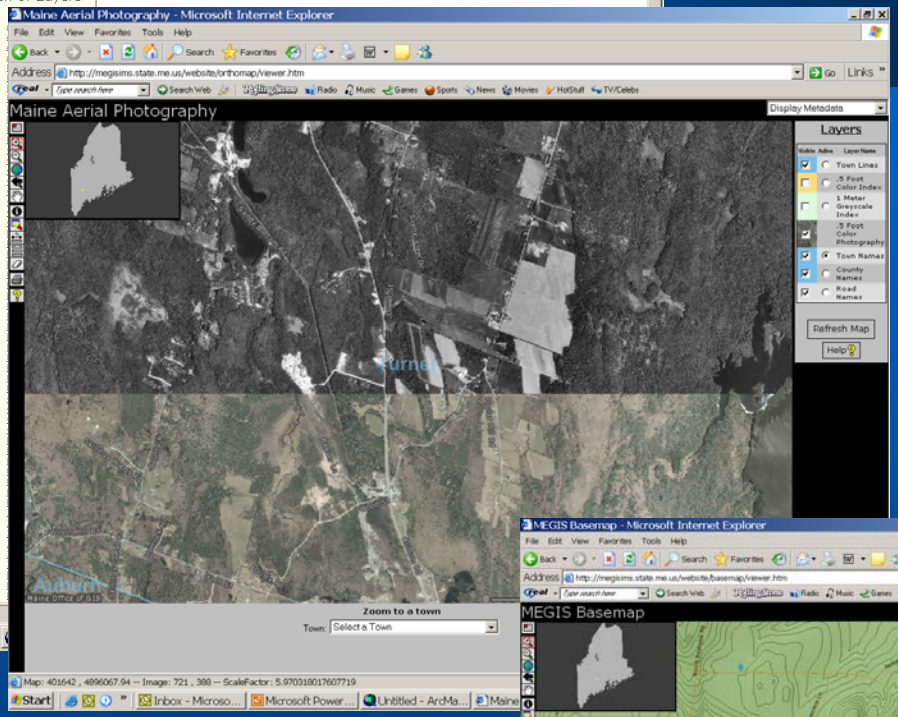
Work will be completed by July 2005

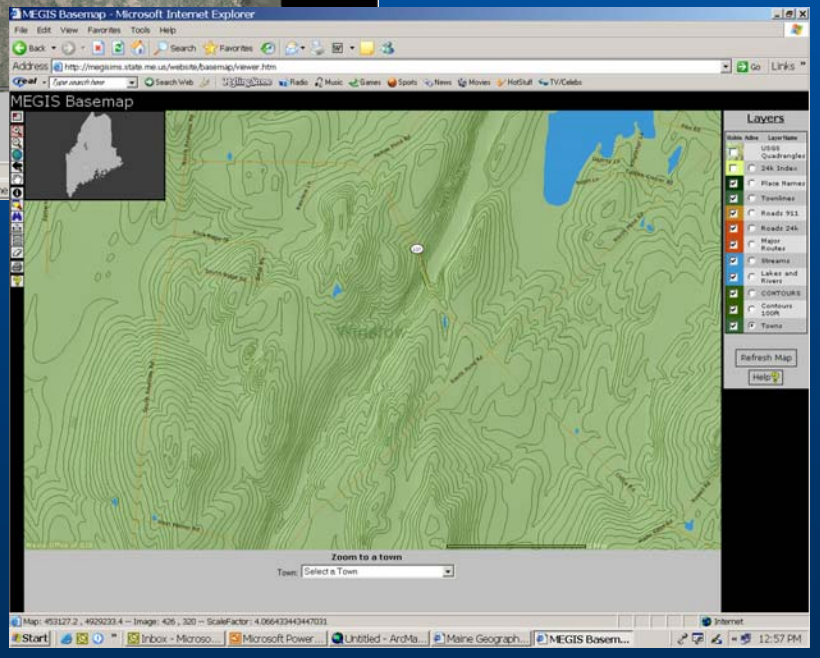


Maine Counties GIS Forum

Data Services







1 – Downloads from Data Catalog

2 – Internet Mapping Applications

3 – OGC compliant map services

GIS licenses

- **Central license pool**
- **Access through Citrix service – software on remote server**
- **Software installed locally - network used to connect to license pool**

GeoLibrary One-Stop Portal

- Geospatial data & service discovery
- Interactive Internet map to view data
- Clip, zip and ship data within limited extent from MeGIS database
- Print tools for basic maps
- Tools for organizations to register data
- Integrated with *GeoSpatial OneStop* and *The National Map*
- RFP issued May, 2005. Responses in this week.

Additional Information

- GIS Technical support
  - 287-6144
  - Feedback form

- GIS User list server
  To subscribe, send email to
  mgisuser-request@lists.state.me.us
  subscribe mgisuser *your name <your email address>*
  To post a message on the list server, send email to
  mgisuser@lists.state.me.us

- NEARC - Portland, Maine, September 18 to 21